	Application No.	Applicant(s)
Notice of Allowability		
	10/695,731 Examiner	HIRAMOTO ET AL. Art Unit
		1
	Toan Le	2824
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap) or other appropriate communication IGHTS. This application is subject to	plication. If not included now will be mailed in due course. THIS
1. This communication is responsive to		
2. The allowed claim(s) is/are <u>1-25</u> .		
3. \boxtimes The drawings filed on <u>24 October 2003</u> are accepted by th	e Examiner.	
 4. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	e been received. e been received in Application No	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
6. CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the state of the sheet.	son's Patent Drawing Review(PTO- s Amendment / Comment or in the C	Office action of engs in the front (not the back) of
7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT		
 Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date 1/02/04 4. Examiner's Comment Regarding Requirement for Deposit 	6. ☐ Interview Summary Paper No./Mail Dat 08), 7. ☑ Examiner's Amendr	te
of Biological Material	9. ⊠ Other <u>East search f</u> Clube T	Dung
	AN I PRIMAR	PHUNG YEXAMINER

Application/Control Number: 10/695,731 Page 2

Art Unit: 2824

Examiner's amendment

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

In claim 22, line 5: after "along" delete -- the --.

The examiner's amendment has been made in order to place the application in a condition for allowance.

DETAILED ACTION

Priority

2. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

- This office acknowledge receipt of the following items from the Applicant:
 Information Disclosure Statement (IDS) filed on January 02, 2004.
- 4. Information disclosed and list on PTO 1449 was considered.

Application/Control Number: 10/695,731 Page 3

Art Unit: 2824

Allowable Subject Matter

5. Claims 1- 25 are allowed over the art of record.

6. The following is an examiner's statement of reasons for allowance: There is no suggestion or teaching in the art of record to provide magnetic memory device and a method for driving a magnetic memory comprising two or more memory layers and two or more tunnel layers that are stacked in a thickness direction of the layers, wherein a resistance change caused by magnetization reversal in a group of first layers differs from a resistance change caused by magnetization reversal in a group of second layers, in combination with the remaining claimed limitations as recited in the independent claims 1 and 15, nor is there suggestion or teaching magnetization reversal of a magnetic filed that is produced by a plurality of currents including a current flowing through the memory layer in its thickness direction as recited in the independent claim 21.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Art Unit: 2824

Hirai et al. (U.S. 6,587,370), Saito et al. (U.S. 6,522,573), Schwarzl et al. (U.S. 6,351,408) disclose a magnetic memory similar to that of the applicant, but do not teach a resistance change caused by magnetization reversal in a group of first layers differs from a resistance change caused by magnetization reversal in a group of second layers and magnetization reversal of a magnetic filed that is produced by a plurality of currents including a current flowing through the memory layer in its thickness direction.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Toan Le whose telephone number is (571) 272-1872. The examiner can normally be reached on M-F (8.00AM - 5.30PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Elms can be reached on (571) 272-1869. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TL May 01, 2005 ANH PHUNG PRIMARY EXAMINER